

Claims

1. Moisture absorptive and desorptive paper, characterized in that, the paper comprises organic fine particles having cross-linking structure and 1 to 10 mmol/g of acidic group where not less than 1 mmol/g of metal ion of at least one kind of metal selected from the group consisting of Li, Na, K, Mg and Ca is bonded to said acidic group (hereinafter, that may be referred to as organic fine particles having cross-linking structure and acidic group), inorganic fiber and pulp-shaped fiber and a saturated moisture absorbing rate under the atmosphere of 20°C/65% RH is not less than 15%.

2. The moisture absorptive and desorptive paper according to claim 1, characterized in that, preparation of aqueous slurry containing the organic fine particles having the cross-linking structure and the acidic group, the inorganic fiber and the pulp-shaped fiber and manufacture of paper are conducted by the use of water where concentration of cation except metal ion bonded to said acidic group is not more than 1 ppm.

3. The moisture absorptive and desorptive paper according to claim 1, characterized in that, aqueous liquid where the organic fine particles having the cross-linking structure and the acidic group are dispersed or emulsified in water in which concentration of cation except metal ion bonded to said acidic group is not more than 1 ppm is impregnated with paper comprising the inorganic fiber and the pulp-shaped fiber.

4. The moisture absorptive and desorptive paper according to any of claims 1 to 3, characterized in that, the

organic fine particles having the cross-linking structure and the acidic group are moisture absorptive and desorptive fine particles of an acrylate type where fine particles of polymer of an acrylonitrile type are subjected to a treatment for introduction of cross-link by a hydrazine type compound and to a hydrolyzing treatment by an alkali metal salt.

5. The moisture absorptive and desorptive paper according to any of claims 1 to 3, characterized in that, the organic fine particles having the cross-linking structure and the acidic group are those having the cross-linking structure by divinylbenzene and carboxyl group.

6. The moisture absorptive and desorptive paper according to any of claims 1 to 5, characterized in that, the pulp-shaped fiber is a fibrillated acrylic fiber.

7. The moisture absorptive and desorptive paper according to any of claims 1 to 6, characterized in that, the content of the thermally adhesive fiber is not more than 20% by weight.

8. The moisture absorptive and desorptive paper according to any of claims 1 to 7, characterized in that, the swelling rate in water is not more than 50%.

9. The moisture absorptive and desorptive paper according to any of claims 1 to 8, characterized in that, a thermal shrinking rate is not more than 5%.

10. A method for manufacture of moisture absorptive and desorptive paper, wherein the method includes a step for preparation of aqueous slurry and a step for manufacture of paper by using said aqueous slurry by a wet method, and wherein said aqueous slurry contains organic fine particles having a

cross-linking structure and 1 to 10 mmol/g of acidic group where not less than 1 mmol/g of metal ion of at least one kind of metal selected from the group consisting of Li, Na, K, Mg and Ca is bonded to said acidic group, inorganic fiber and pulp-shaped fiber, characterized in that, water where concentration of cation excluding the metal ion bonded to said acidic group is not more than 1 ppm is used.

11. A method for the manufacture of moisture absorptive and desorptive paper, characterized in that, aqueous liquid in which organic fine particles having a cross-linking structure and 1 to 10 mmol/g of acidic group where not less than 1 mmol/g of metal ion of at least one kind of metal selected from the group consisting of Li, Na, K, Mg and Ca is bonded to said acidic group are dispersed or emulsified in water where concentration of cation excluding metal ion bonded to said acid group is not more than 1 ppm is impregnated with paper comprising inorganic fiber and pulp-shaped fiber.